



# योजना तथा वास्तुकला विद्यालय, विजयवाड़ा

## School of Planning and Architecture, Vijayawada

An Institute of National Importance, Ministry of Education, Govt. of India

SEMESTER : III YEAR : 2ND YEAR | IV Semester

Subject Name:- Building Materials and Construction

Subject Code :- ARC222

Subject Faculty: Dr. R.N.S. Murthy, Asst. Prof. Jaishree Mishra, MSR Srinivas

Session No.	Schedule Date	Topic	Detailed Content	Week	No. Sheets	Mode of teaching		Faculty members will deliver with ... (Notes/PPT/...)	Responsible faculty member
						Lecture	Discssion & Studio Work		
1	16th Jan 2023	Unit 1 - Floors and Flooring Materials	Introduction to types of floors (ground, upper) and types of paving, essential requirements of a floor, factors affecting selection of flooring material, natural and artificial flooring materials like mud, brick, stone, tile, jack-arch floors, cement concrete, granolithic, wooden flooring, timber floor supported on rolled steel joists (RSJ), flag stone floor resting on RSJ, rubber, Vinyl, PVC, PVA etc., introduction to various floor finishes and fixing details.	2 week	3 No. Sheets	1HR	4HR	PPT  Discussions	RNSM
	3 week								
2	09th Jan 2013	Assignment_1_ Warm-up Ex 1_ 10 Marks Learnings from The Previous and Possible Applications could be applied from the (BCM-III & BCT-IV) In		2 HR+ 3HR (1 week)				ALL Faculty	
3	30th Jan 23	Unit 3 - Partition, Panelling and False ceiling	Introduction, requirement of partition, types of partitions (viz. Brick, clay, concrete, glass, timber, gypsum etc.) Various types of panelling (glazed, wooden etc.), details for panelling, sound proof and lightweight partitions.	4 Week	3 No. Sheets	1HR	4HR	PPT  Notes  Class Studio Work	SN
	6th feb 23	Unit 2 - Staircases	Definitions, Tread, riser, stringer, nosing, flight, landing, head room, handrail, balusters, newel post etc. Types of staircases: straight, dog-legged, open-well, geometrical, circular, spiral, bifurcated.	5 Week	3 No. Sheets	1HR	4HR		JM
4	20th feb 2023		Construction details & types of finishes of wooden, metal stairs and R.C.C. stairs. Emphasis should also be given on details related to differently-abled people.	6 Week		1HR	4HR		
5	27th feb 2023 MID TERM SUBMISSION	MID TERM SUBMISSION_ Assignment 2_ 40 Marks_ MCQ Type Question + Sheet Submission		2HR+3HR (7Week)				ALL Faculty	
6	5th March 2023	Unit 4 - Surface Finishes	Construction details & types of finishes of wooden, metal stairs and R.C.C. stairs. Emphasis should also be given on details related to differently-abled people.	8 week	3 No. Sheets	1HR	4HR	PPT	JM
7	12th March 2023		Smooth finishes, textured finishes, ribbed, hitched, exposed aggregate finish, weathering of finishes, rough cast, dry dash, stucco, gypsum, and pop applications, protective and decorative coatings, cladding. Defects in plastering, type of plastering, method of plastering. Varnishes, polish and Paints-distempers, emulsions, cement base paints, oil base.	8 & 9week		1HR	4HR		SN
	19th March 2023 26th March 2024		Constituents of oil paints, characteristics of paints, types of paints and process of painting on different surfaces. Types of varnish, methods of applying varnish, French polish, melamine finish, lacquer finish their applications in building activities. Laminates and veneers, type of laminates, laminated wood, veneer from different types of timber, and their characteristics.	9 & 10 week					
8	2nd April 2024	Waterproof components	Water Proofing elements, causes and defects of dampness, methods adopted for waterproofing and damp proofing at different levels of a building, admixtures and different materials (rigid, flexible) used in the process. Construction chemicals and additives, adhesives, plaster of Paris, gypsum, Polystyrenes, sealants. Detailing of waterproofing of basement, toilets, terrace garden, French drains etc	11 week	3 Nos.	1HR	4HR	RNSM	
9	9th April 2024	Holiday		12 week	Total 15 No. Sheets	1HR	4HR		ALL Faculty
	16th April 2024	FINAL Submission (EOD)		13 week					

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HOD Signature: